

Analytical Laboratory

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number:	J11100266			
Customer Name(s):	Bill Kennedy, Melonie Martin, Wayne	Chapman,	Tom Johnson	
Customer Address:	3195 Pine Hall Rd Mailcode: Belews Steam Station Belews Creek, NC 28012			
Lab Contact:	Jason C Perkins	Phone:	980-875-5348	
Report Authorized By: (Signature)		Date	: :	11/11/2011

Program Comments:

Please contact the Program Manager (Jason C Perkins) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Page 2 of 16

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2011022589	BELEWS	26-Oct-11 7:15 AM	W. B. WORKMAN	FGD Purge Eff
2011022590	BELEWS	26-Oct-11 7:20 AM	W. B. WORKMAN	EQ TANK EFF.
2011022591	BELEWS	26-Oct-11 7:25 AM	W. B. WORKMAN	BIOREACTOR 1 INF.
2011022592	BELEWS	26-Oct-11 7:30 AM	W. B. WORKMAN	BIOREACTOR 2 INF.
2011022593	BELEWS	26-Oct-11 7:35 AM	W. B. WORKMAN	BIOREACTOR 2 EFF.
2011022594	BELEWS	26-Oct-11 7:40 AM	W. B. WORKMAN	FILTER BLANK
2011022595	BELEWS	26-Oct-11 7:45 AM	W. B. WORKMAN	Trip Blank
7 Total Samples				

Checklist:

Reviewed By:

DataBase Administrator

COC and .pdf report are in agreement with sampl and analyses (compliance programs and procedu		✓ Yes	□ No
All Results are less than the laboratory reporting I	imits.	Yes	✓ No
All laboratory QA/QC requirements are acceptable	e.	✓ Yes	☐ No
The Vendor Laboratories have been qualified by t Analytical Laboratory	he	Yes	
Report Sections Included:			
✓ Job Summary Report	✓ Sub-cont	racted Laborat	ory Results
✓ Sample Identification	☐ Custome	Specific Data	Sheets, Reports, & Documentation
✓ Technical Validation of Data Package	☐ Custome	r Database En	tries
✓ Analytical Laboratory Certificate of Analysis	✓ Chain of	Custody	
☐ Analytical Laboratory QC Report	✓ Electroni	c Data Delivera	able (EDD) Sent Separately

Date:

11/11/2011

This report shall not be reproduced, except in full.

Order # J11100266

Site: FGD Purge Eff Sample #: 2011022589

Collection Date: 26-Oct-11 7:15 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
INORGANIC IONS BY IC							
Bromide	89	mg/L		5	EPA 300.0	07-Nov-11 23:54	JAHERMA
MERCURY (COLD VAPOR)	IN WATER						
Mercury (Hg)	234	ug/L		5	EPA 245.1	04-Nov-11 09:40	AGIBBS
TOTAL RECOVERABLE ME	TALS BY ICP						
Boron (B)	143	mg/L		0.5	EPA 200.7	31-Oct-11 15:05	DJSULL1
DISSOLVED METALS BY IC	:P-MS						
Selenium (Se)	486	ug/L		10	EPA 200.8	02-Nov-11 11:25	MHH7131
TOTAL RECOVERABLE ME	TALS BY ICP-MS						
Arsenic (As)	169	ug/L		10	EPA 200.8	02-Nov-11 10:06	MHH7131
Chromium (Cr)	194	ug/L		10	EPA 200.8	02-Nov-11 10:06	MHH7131
Copper (Cu)	116	ug/L		10	EPA 200.8	02-Nov-11 10:06	MHH7131
Nickel (Ni)	199	ug/L		10	EPA 200.8	02-Nov-11 10:06	MHH7131
Selenium (Se)	4570	ug/L		10	EPA 200.8	02-Nov-11 10:06	MHH7131
Silver (Ag)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:06	MHH7131
Zinc (Zn)	217	ug/L		20	EPA 200.8	02-Nov-11 10:06	MHH7131
SELENIUM SPECIATION							
Vendor Parameter	Complet	е			V_AS&C		
TOTAL DISSOLVED SOLIDS	<u>3</u>						
TDS	15000	mg/L		200	SM2540C	27-Oct-11 14:55	TJA7067

Site: EQ TANK EFF. Sample #: 2011022590

Collection Date: 26-Oct-11 7:20 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
MERCURY (COLD VAPOR) IN WA	<u>TER</u>						
Mercury (Hg)	181	ug/L		2.5	EPA 245.1	04-Nov-11 09:43	AGIBBS
TOTAL RECOVERABLE METALS	BY ICP						
Boron (B)	150	mg/L		0.5	EPA 200.7	31-Oct-11 15:09	DJSULL1
DISSOLVED METALS BY ICP-MS							
Selenium (Se)	424	ug/L		10	EPA 200.8	02-Nov-11 11:25	MHH7131

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Order # J11100266

Site: EQ TANK EFF. **Sample #: 2011022590**

Collection Date: 26-Oct-11 7:20 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
TOTAL RECOVERABLE METALS	BY ICP-MS						
Arsenic (As)	150	ug/L		10	EPA 200.8	02-Nov-11 10:09	MHH7131
Chromium (Cr)	175	ug/L		10	EPA 200.8	02-Nov-11 10:09	MHH7131
Copper (Cu)	109	ug/L		10	EPA 200.8	02-Nov-11 10:09	MHH7131
Nickel (Ni)	185	ug/L		10	EPA 200.8	02-Nov-11 10:09	MHH7131
Selenium (Se)	4200	ug/L		10	EPA 200.8	02-Nov-11 10:09	MHH7131
Silver (Ag)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:09	MHH7131
Zinc (Zn)	204	ug/L		20	EPA 200.8	02-Nov-11 10:09	MHH7131

Site: BIOREACTOR 1 INF. Sample #: 2011022591

Collection Date: 26-Oct-11 7:25 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
TOTAL RECOVERABLE METALS B	Y ICP						
Boron (B)	145	mg/L		0.5	EPA 200.7	31-Oct-11 14:49	DJSULL1
DISSOLVED METALS BY ICP-MS							
Selenium (Se)	405	ug/L		10	EPA 200.8	02-Nov-11 11:25	MHH7131
TOTAL RECOVERABLE METALS B	Y ICP-MS						
Arsenic (As)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:12	MHH7131
Chromium (Cr)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:12	MHH7131
Copper (Cu)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:12	MHH7131
Nickel (Ni)	44.6	ug/L		10	EPA 200.8	02-Nov-11 10:12	MHH7131
Selenium (Se)	448	ug/L		10	EPA 200.8	02-Nov-11 10:12	MHH7131
Silver (Ag)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:12	MHH7131
Zinc (Zn)	< 20	ug/L		20	EPA 200.8	02-Nov-11 10:12	MHH7131
SELENIUM SPECIATION							
Vendor Parameter	Complete				V_AS&C		

Site: BIOREACTOR 2 INF. Sample #: 2011022592

Collection Date: 26-Oct-11 7:30 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
TOTAL RECOVERABLE METALS	BY ICP						
Boron (B)	143	mg/L		0.5	EPA 200.7	31-Oct-11 14:53	DJSULL1

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Order # J11100266

Site: BIOREACTOR 2 INF.

Collection Date: 26-Oct-11 7:30 AM

Sample #:

2011022592

Matrix:

OTHER

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
TOTAL RECOVERABLE METALS	BY ICP-MS						
Arsenic (As)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:15	MHH7131
Chromium (Cr)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:15	MHH7131
Copper (Cu)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:15	MHH7131
Nickel (Ni)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:15	MHH7131
Selenium (Se)	41.7	ug/L		10	EPA 200.8	02-Nov-11 10:15	MHH7131
Silver (Ag)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:15	MHH7131
Zinc (Zn)	< 20	ug/L		20	EPA 200.8	02-Nov-11 10:15	MHH7131

Site: BIOREACTOR 2 EFF. Sample #: 2011022593

Collection Date: 26-Oct-11 7:35 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
INORGANIC IONS BY IC							
Bromide	81	mg/L		5	EPA 300.0	08-Nov-11 00:09	JAHERMA
MERCURY (COLD VAPOR) IN WAT	ER						
Mercury (Hg)	< 1	ug/L		1	EPA 245.1	04-Nov-11 09:55	AGIBBS
TOTAL RECOVERABLE METALS E	BY ICP						
Boron (B)	130	mg/L		0.5	EPA 200.7	31-Oct-11 14:57	DJSULL1
TOTAL RECOVERABLE METALS E	BY ICP-MS						
Arsenic (As)	< 5	ug/L		5	EPA 200.8	02-Nov-11 10:18	MHH7131
Chromium (Cr)	< 5	ug/L		5	EPA 200.8	02-Nov-11 10:18	MHH7131
Copper (Cu)	< 5	ug/L		5	EPA 200.8	02-Nov-11 10:18	MHH7131
Nickel (Ni)	< 5	ug/L		5	EPA 200.8	02-Nov-11 10:18	MHH7131
Selenium (Se)	< 5	ug/L		5	EPA 200.8	02-Nov-11 10:18	MHH7131
Silver (Ag)	< 5	ug/L		5	EPA 200.8	02-Nov-11 10:18	MHH7131
Zinc (Zn)	< 10	ug/L		10	EPA 200.8	02-Nov-11 10:18	MHH7131
SELENIUM SPECIATION							
Vendor Parameter	Complete	•			V_AS&C		

Site: FILTER BLANK Sample #: 2011022594

Collection Date: 26-Oct-11 7:40 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
DISSOLVED METALS BY ICP-MS							
Selenium (Se)	< 1	ug/L		1	EPA 200.8	02-Nov-11 11:25	MHH7131

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Order # J11100266

Site: Trip Blank Sample #: 2011022595

Collection Date: 26-Oct-11 7:45 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
TOTAL RECOVERABLE MI	ETALS BY ICP						
Boron (B)	< 0.05	mg/L		0.05	EPA 200.7	31-Oct-11 14:45	DJSULL1
TOTAL RECOVERABLE MI	ETALS BY ICP-MS						
Arsenic (As)	< 1	ug/L		1	EPA 200.8	02-Nov-11 10:03	MHH7131
Chromium (Cr)	< 1	ug/L		1	EPA 200.8	02-Nov-11 10:03	MHH7131
Copper (Cu)	< 1	ug/L		1	EPA 200.8	02-Nov-11 10:03	MHH7131
Nickel (Ni)	< 1	ug/L		1	EPA 200.8	02-Nov-11 10:03	MHH7131
Selenium (Se)	< 1	ug/L		1	EPA 200.8	02-Nov-11 10:03	MHH7131
Silver (Ag)	< 1	ug/L		1	EPA 200.8	02-Nov-11 10:03	MHH7131
Zinc (Zn)	< 2	ug/L		2	EPA 200.8	02-Nov-11 10:03	MHH7131
SELENIUM SPECIATION							
Vendor Parameter	Complete	9			V AS&C		



18804 Northcreek Parkway Bothell, WA, 98011 Tel: (425) 483-3300 Fax: (425) 483-9818 www.appliedspeciation.com

November 3, 2011

Jay Perkins Duke Energy Analytical Laboratory Mail Code MGO3A2 (Building 7405) 13339 Hagers Ferry Rd. Huntersville, NC 28078 (704) 875-5245

Project: Belews – FGD WWTS Bi-Monthly Sampling) (LIMS # J11100266)

Dear Mr. Perkins,

Attached is the report associated with four (4) aqueous samples submitted for selenium speciation analysis on October 27, 2011. The samples were received in a sealed cooler at -0.5°C on October 28, 2011. Selenium speciation analysis was performed via ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS). Any issues associated with the analysis are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Russell Gerads Vice President

Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Jay Perkins
Duke Energy Analytical Laboratory
Mail Code MGO3A2 (Building 7405)
13339 Hagers Ferry Rd.
Huntersville, NC 28078

Project: Belews – FGD WWTS Bi-Monthly Sampling) (LIMS # J11100266)

November 3, 2011

1. Sample Reception

Four (4) aqueous samples in 125mL HDPE bottles (provided by Applied Speciation and Consulting) were submitted for selenium speciation analysis on October 27, 2011. The samples were received on October 28, 2011 in a sealed container at -0.5°C.

The samples were received in a laminar flow clean hood, void of trace metals contamination and ultra-violet radiation, and designated a discrete sample identifier. An aliquot of each sample was filtered (0.45µm) and each filtrate was stored in a secure, monitored cryofreezer (maintained at a temperature of -80°C) until selenium speciation analysis could be performed via ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS).

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

<u>Selenium Speciation Analysis by IC-ICP-DRC-MS</u> Prior to analysis, an aliquot of each sample was filtered with a syringe filter (0.45µm) and injected directly into a sealed autosampler vial. No further sample preparation was performed as any chemical alteration of a sample may shift the equilibrium of the system, resulting in changes in speciation ratios.

3. Sample Analysis

All sample analysis is preceded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of

each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimal interval of every ten analytical runs.

<u>Selenium Speciation Analysis by IC-ICP-DRC-MS</u> Each sample for selenium speciation analysis was analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS) on October 28, 2011. An aliquot of each sample is injected onto an anion exchange column and mobilized by a basic (pH > 7) gradient. The eluting selenium species are then introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer and the resulting current is processed by a data handling system.

Retention times for each eluting species are compared to known standards for species identification.

4. Analytical Issues

The overall analyses went well and no significant analytical issues were encountered. All quality control parameters associated with this sample were within acceptance limits.

The estimated method detection limits (eMDLs) for selenite, selenate, and selenocyanate are generated from replicate analyses of the lowest standard in the calibration curve. Not all selenium species are present in preparation blanks; therefore, eMDL calculations based on preparation blanks are artificially biased low.

The eMDL for methylseleninic acid and selenomethionine is calculated from the average eMDL of selenite, selenate, and selenocyanate. The calibration does not contain methylseleninic acid or selenomethionine due to impurities in these standards which would bias the results for other selenium species.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

Russell Gerads Vice President

Applied Speciation and Consulting, LLC

Selenium Speciation Results for Duke Energy Project Name: Belews - FGD WWTS Bi-Monthly Sampling) Contact: Jay Perkins LIMS #J11100266

Date: November 3, 2011
Report Generated by: Russell Gerads
Applied Speciation and Consulting, LLC

Sample Results

						Unknown Se
Sample ID	Se(IV)	Se(VI)	SeCN	MeSe(IV)	SeMe	Species (n)
FGD Purge Eff	378	110	31.2	ND (<2.7)	ND (<2.7)	0 (0)
BioReactor 1 Inf	174	176	13.5	ND (<0.68)	ND (<0.68)	11.2 (1)
BioReactor 2 Eff	ND (<0.69)	ND (<0.61)	ND (<0.73)	ND (<0.68)	ND (<0.68)	0 (0)
Metals Trip Blk	ND (<0.14)	ND (<0.12)	ND (<0.15)	ND (<0.14)	ND (<0.14)	0 (0)

All results reflect the applied dilution and are reported in µg/L

ND = Not detected at the applied dilution

SeCN = Selenocyanate

MeSe(IV) = Methylseleninic acid

SeMe = Selenomethionine

Unknown Se Species = Total concentration of all unknown Se species observed by IC-ICP-MS

n = number of unknown Se species observed

Selenium Speciation Results for Duke Energy Project Name: Belews - FGD WWTS Bi-Monthly Sampling) Contact: Jay Perkins LIMS #J11100266

Date: November 3, 2011 Report Generated by: Russell Gerads Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	PBW1	PBW2	PBW3	PBW4	Mean	StdDev	eMDL*	eMDL 10x	eMDL 50x	eMDL 200x
Se(IV)	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.14	0.69	2.8
Se(VI)	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.12	0.61	2.5
SeCN	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.15	0.73	2.9
MeSe(IV)	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.14	0.68	2.7
SeMe	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.14	0.68	2.7

eMDL = Estimated Method Detection Limit

Quality Control Summary - Certified Reference Materials

Analyte (µg/L)	CRM	True Value	Result	Recovery
Se(IV)	LCS	9.57	9.76	101.9
Se(VI)	LCS	9.48	9.61	101.4
SeCN	LCS	8.92	8.987	100.7
MeSe(IV)	LCS	6.47	6.285	97.1
SeMe	LCS	9.32	8.93	95.8

^{*}Please see narrative regarding eMDL calculations

Selenium Speciation Results for Duke Energy Project Name: Belews - FGD WWTS Bi-Monthly Sampling) Contact: Jay Perkins LIMS #J11100266

Date: November 3, 2011 Report Generated by: Russell Gerads Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Rep 1	Rep 2	Mean	RPD
Se(IV)	Batch QC	96.7	90.7	93.7	6.4
Se(VI)	Batch QC	55.4	48.4	51.9	13.4
SeCN	Batch QC	23.7	23.5	23.6	0.6
MeSe(IV)	Batch QC	ND (<2.7)	ND (<2.7)	NC	NC
SeMe	Batch QC	ND (<2.7)	ND (<2.7)	NC	NC

ND = Not detected at the applied dilution

NC = Value was not calculated due to one or more concentrations below the eMDL

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
Se(IV)	Batch QC	1112	1225	101.7	1112	1203	99.7	1.8
Se(VI)	Batch QC	1009	1067	100.6	1009	1077	101.6	0.9
SeCN	Batch QC	915.0	913.0	97.2	915.0	915.0	97.4	0.2

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(704) 875-5245	Huntersville, N. C. 28078	13339 Hagers Ferry Rd	Mail Code MGO3A2 (Building 7405)	Duke Energy Analytical Laboratory	CHAIN OF CHSTODY REC
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8)Oper. Unit: 9)	5)Business Unit: 6)	2) Client: Bill Kennedy, Wayne Chapmar	1)Project Name Belew WWTS Bi-Mo	Energy.	Duke	0
9)Res. Type:	6)Process:	Bill Kennedy, Melonie Martin, Wayne Chapman, Tom Johnson **	Belews - FGD WWTS Bi-Monthly Sampling)	Huntersville, N. C. 28078 (704) 875-5245 Fax: (704) 875-4349	Mail Code MGO3A2 (Building 7405)	HAIN OF CUSTODY RE
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Customer to complete all			PO#133241 Cook	Logged By W Dark & Time 10-77-11	ORDER! 100266 MATRIX: OTHER	CHAIN OF CUSTODY RECORD AND ANALYSIS R
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12 Seal Cott. Opened by		10) Seal/Lock Opened By	BJAccaped By:	6]Accepted By	4) Acceptants Mil	2) Accepted By					10/26/11 7/W	10/26/11 7:40		10/24/17:35		10/aut 7:30		10/24/11 71/25	10/24/11 7:20	10/26/11 7:15	Date Time		Sampling conducted Zirt and 4th Wednesday	oppropriate non	Customer to co	
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11-8-11	Add. Cost Will Apply	Other	· 48 Hr	*7 Days	14 Days	²² Requested Turnaround		11/8-2/01		is performed in the field please provide a filter blank too.									•	_	۔ }	926	(Imp	orta	On - vent to pla	ice fillet

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM Page 16 of 16 **Duke Energy Analytical Laboratory Analytical Laboratory Use Only** Duke Energy_s ¹⁹Page 1 of 2 MATRIX: OTHER Mail Code MGO3A2 (Building 7405) NC N 100266 Originating DISTRIBUTION 13339 Hagers Ferry Rd From ORIGINAL to LAB. Huntersville, N. C. 28078 (704) 875-5245 SAMPLE PROGRAM COPY to CLIENT Ground NPDES Fax: (704) 875-4349 **Drinking Water** 1)Project Name Belews - FGD 2)Phone No: UST AS&C **RCRA Waste** WWTS Bi-Monthly Sampling) Cooler Temp (C) PO#133241 2) Client: 4)Fax No: 15Preserv.:1=HCL Bill Kennedy, Melonie Martin, 2=H2SO4 3=HNO3 Wayne Chapman, Tom Johnson ** 4 3,4 4=Ice 5=None 4 3,4 6)Process: 5)Business Unit: MR # Se, speciation - vendor to AS&C (Important to place filled bottle back into both baggies) Mail Code: 16Analyse Required dig.) 8)Oper. Unit: 9)Res. Type: 10)Reso. Center: Customer to complete all soluble (no appropriate non-shaded areas. Br (Dionex) Hg - 245.1 Sampling conducted: 2nd and 4th Wednesday LAB USE ONLY Metals* Se Speciation Bottle 17Comp. 18 Grab TDS Se, ¹³Sample Description or ID Date Time Signature 2011022584 1 10/26/11 W. Workme FGD Purge Eff 7:15 10/26/11 7:20 EQ Tank Eff. BioReactor 1 Inf 10/24/4 7!25 1 93 10/26/11 7:30 BioReactor 2 Inf 93 BioReactor 2 Eff 10/24/17:35 1 1 Filter Blk 10/26/11 7:40 10(26/11 7:45 Metals Trip Blk Filtering of the Se is performed in the field please provide a filter blank too. Customer to sign & date below - fill out from left to rigi 1) Relinquished By Date/Time 2) Accepted By Date/Time ²²Requested Turnaround 11100Am IN. Workman 10/26/11 Customer, IMPORTANT!
Please indicate desired turnaround. Date/Time 4) Accepted By Date/Time 14 Days ()Relinquished By Date/Time 6)Accepted By: *7 Days 7)Relinquished By Date/Fime 8)Accepted By: Date/Time * 48 Hr 9)Seal/Locked By Date/Time 10) Seal/Lock Opened By Date/Time * Add. Cost Will Apply 11)Seal/Locked By Date/Time 12)Seal/Lock Opened By Date/Time

Digestions = TRM

thomas diohnson@siemens.com

Comments

* B by ICP

As, Cr, Cu, Ni, Se, Aq, Zn by IMS